

Biomek Set-up

Genewriter - Oligonucleotide Pooling Plan

F-A1		F-A	2 .		F-A	13.		F-A	4		F-A	5	:
R-A1			R-A2		R-A3		R-A3	F		R-A4		R-A5	
	1	2	3	4	5	6	7	8	9	10	11	12	*
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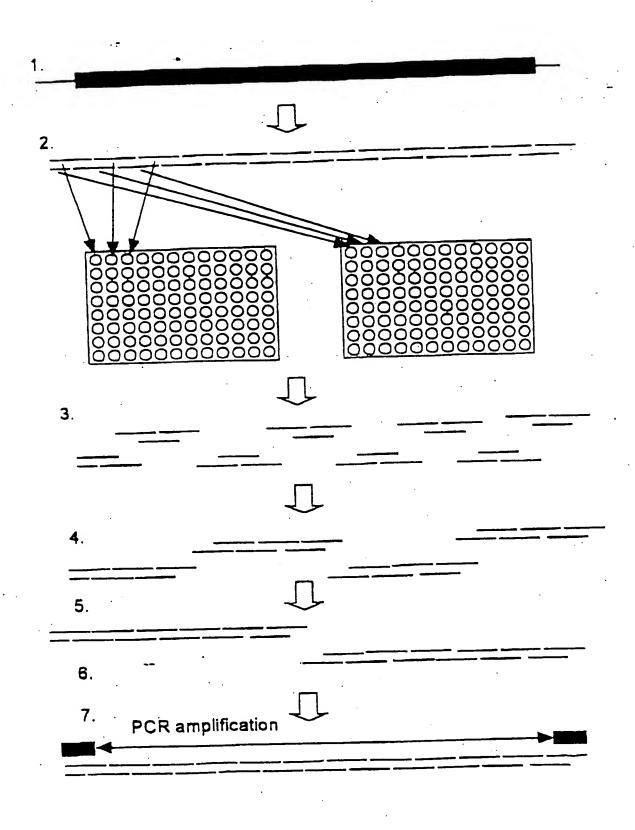
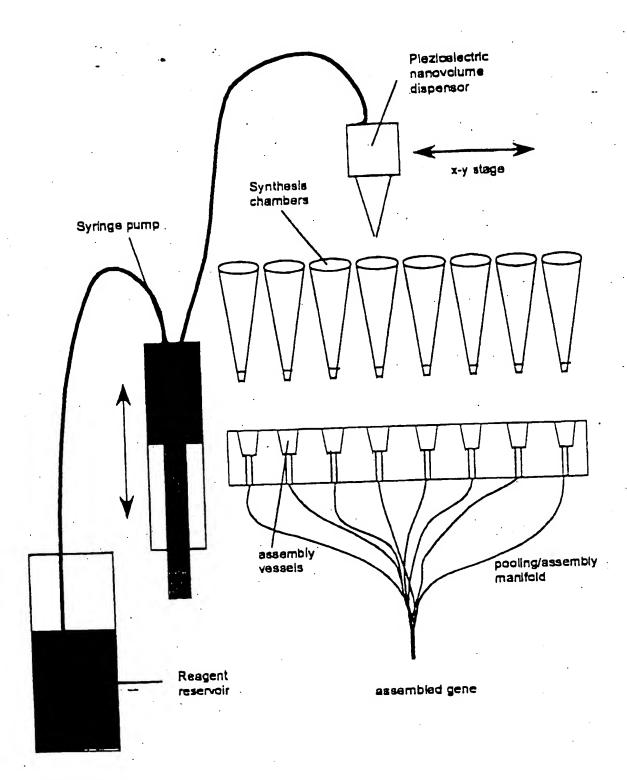


Figure 3

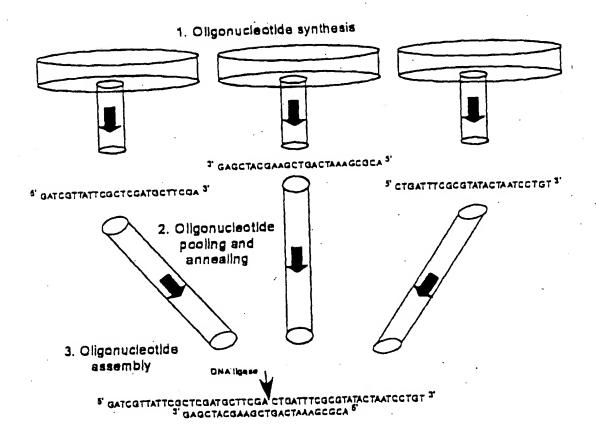
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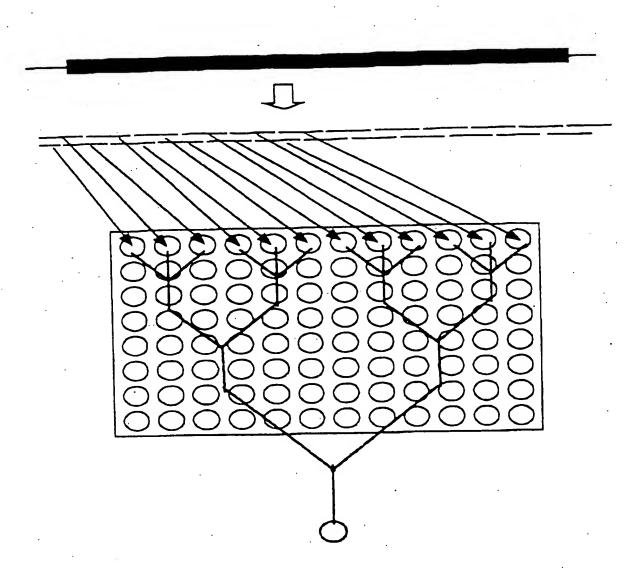


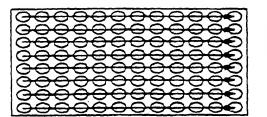
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Inventor: Glen A. Evans Attorney Docket No. P-EA 5160

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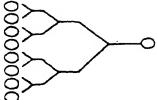


Figure 7

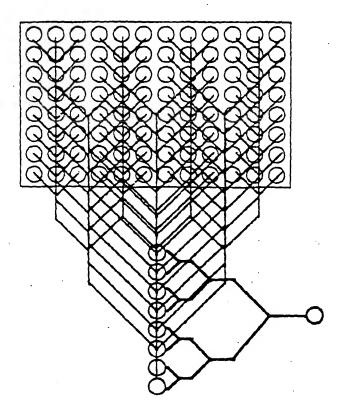


Figure 8

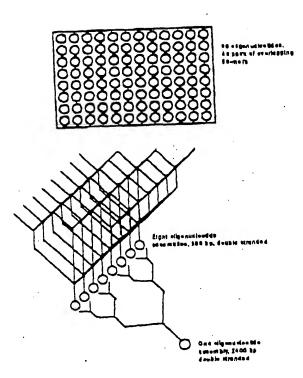
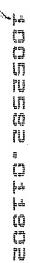


Figure 9



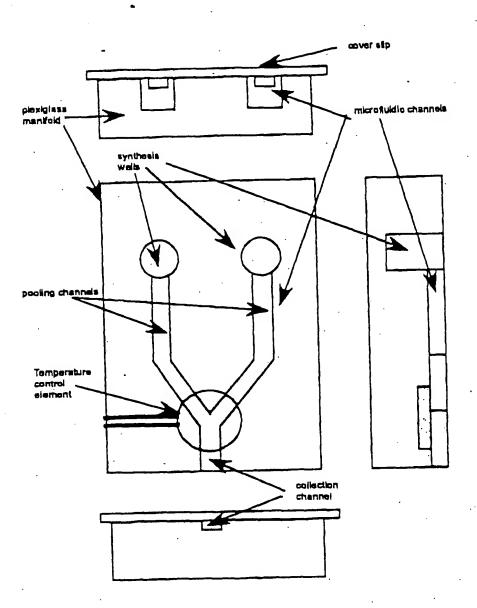


Figure 10

Genewriter Platform Dosign 8×96 well plates addressed with 16 piezioelectric nanovolume dispense hoads; One wash/dry station and one additional plate station. 8 plate evacuated by a single vacuum station.

Capacity of 8 x 96 = 768 oligos/run

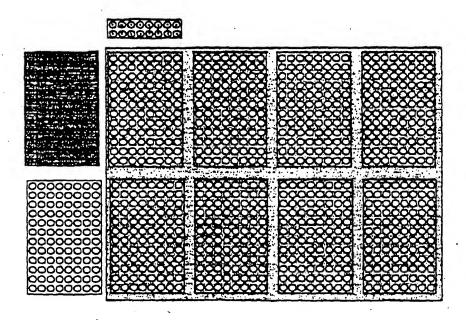
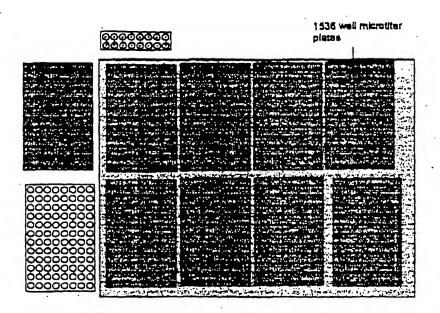
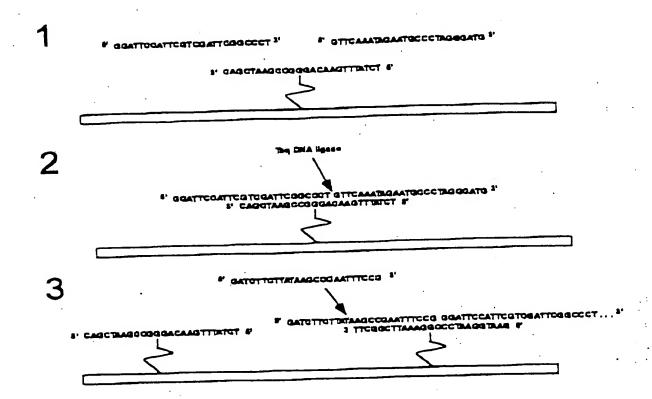


Figure 11

Genewiter Platform Design - High Capacity Mode 8 x 1536 well microseasy plates addressed with 16 plazicelectric nanovolume dispense heads; One wash/dry station and one additional plate station. 18 plates evacuated by a single vacuum station.

Capacity of 6 x 1636 = 12,266 oligos/run





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Figure 13

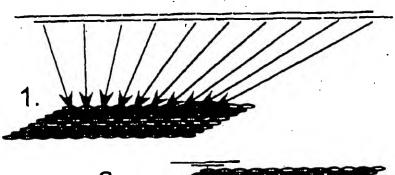


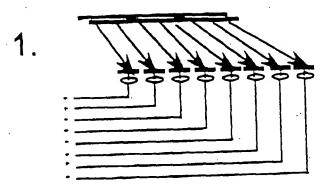




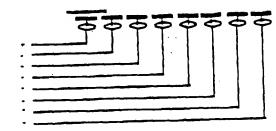


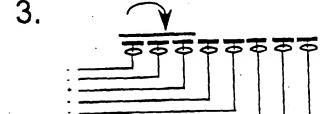
Figure 14











Bidirectional primer extension strategy for gene assembly

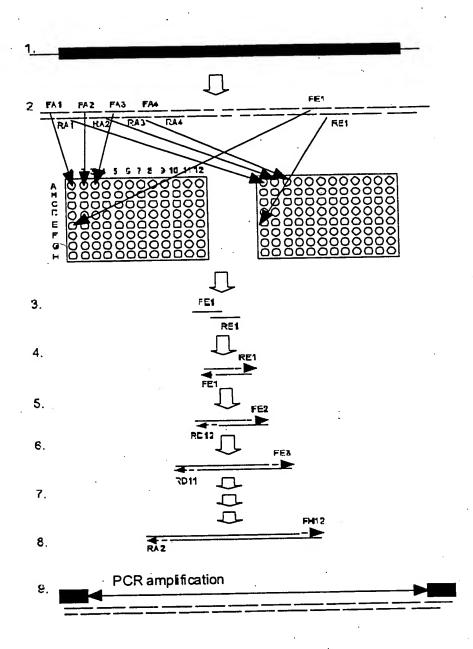


Figure 16

System Diagram for Genewriter

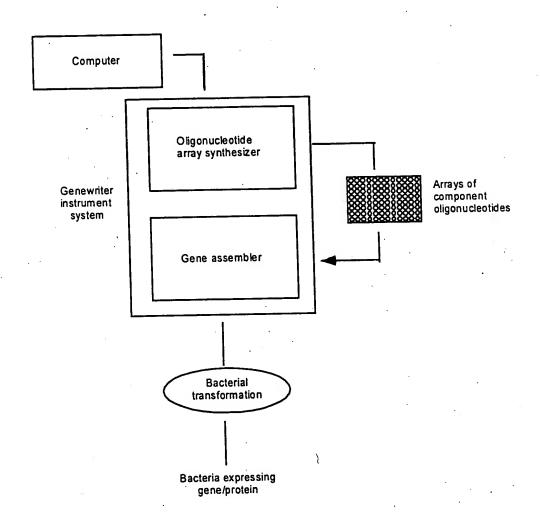


Figure 17

Perspective view of Genewriter Instrument

Genewriter diagram

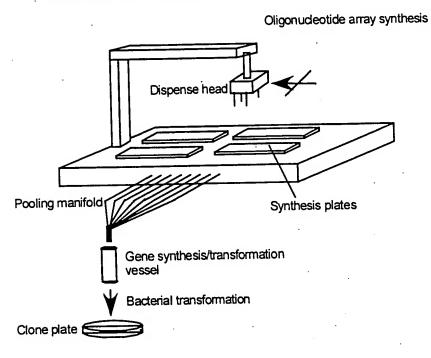


Figure 18